

Figure 1

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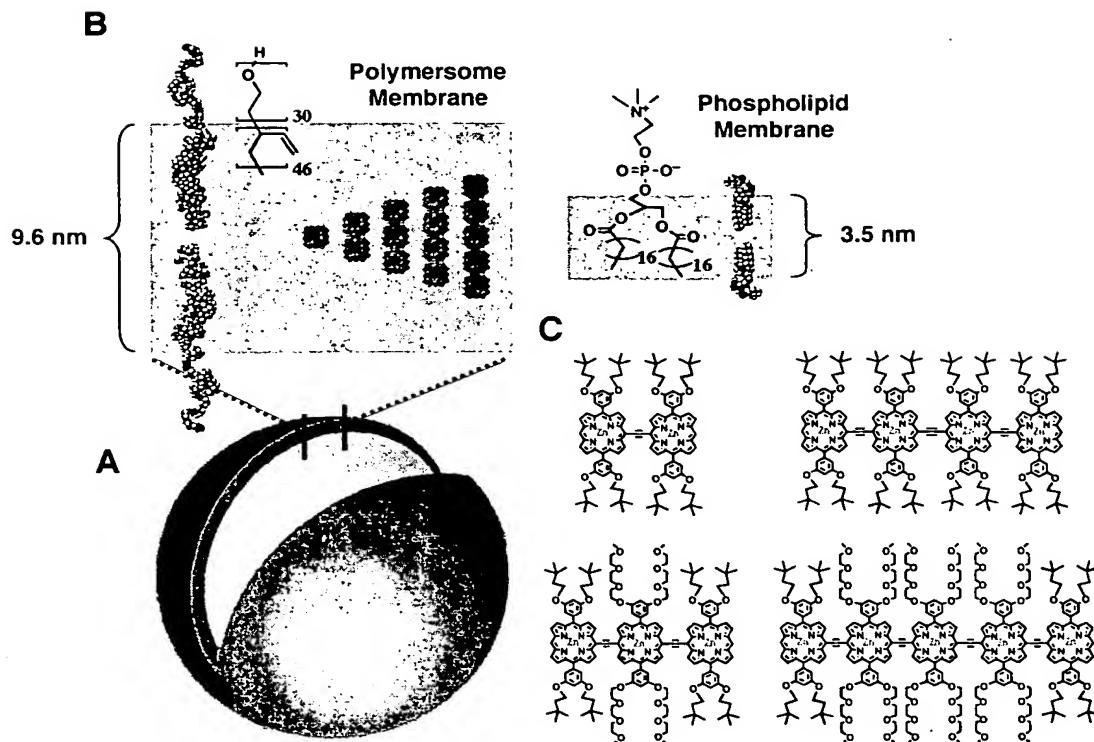
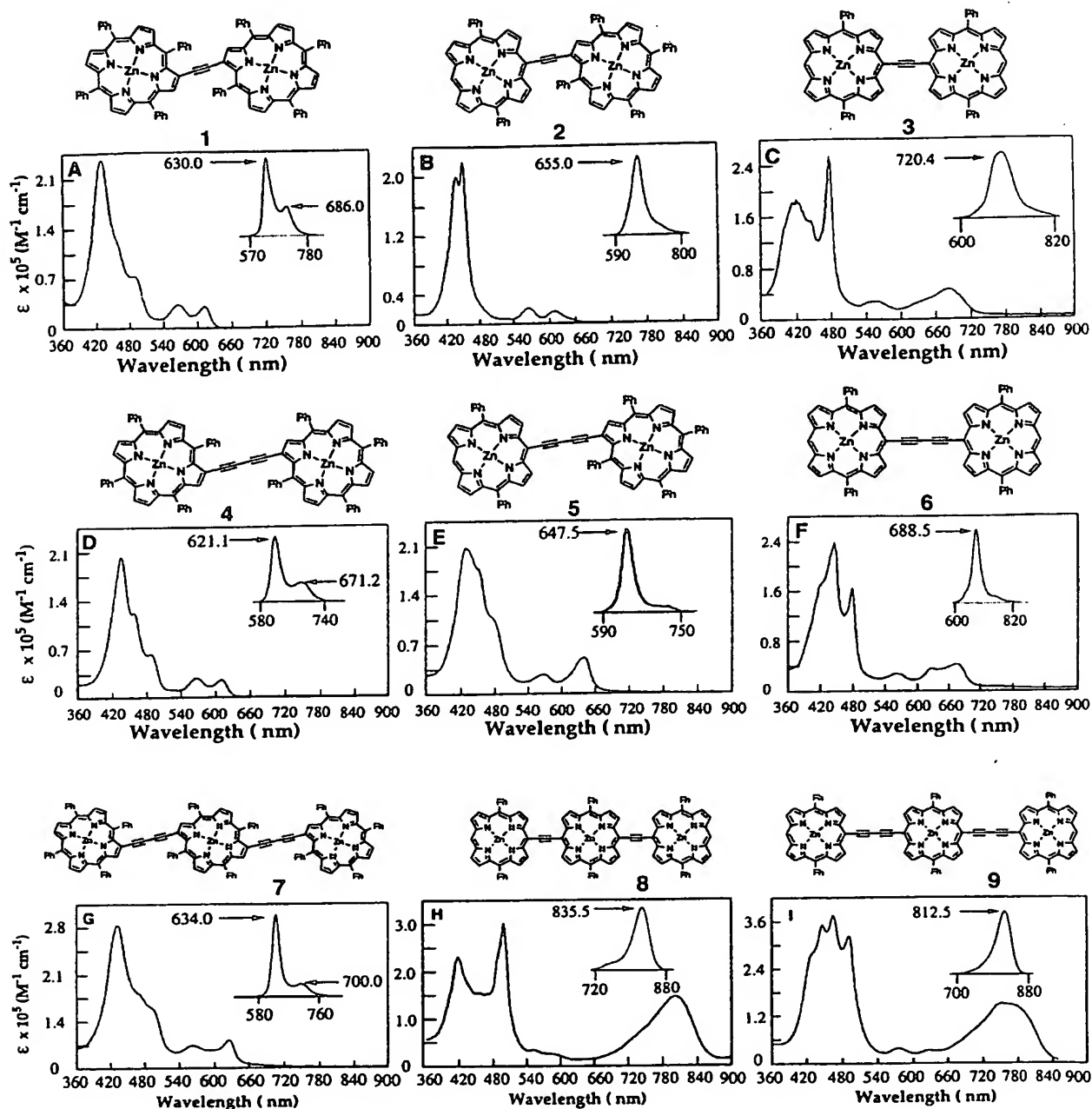


Figure 2

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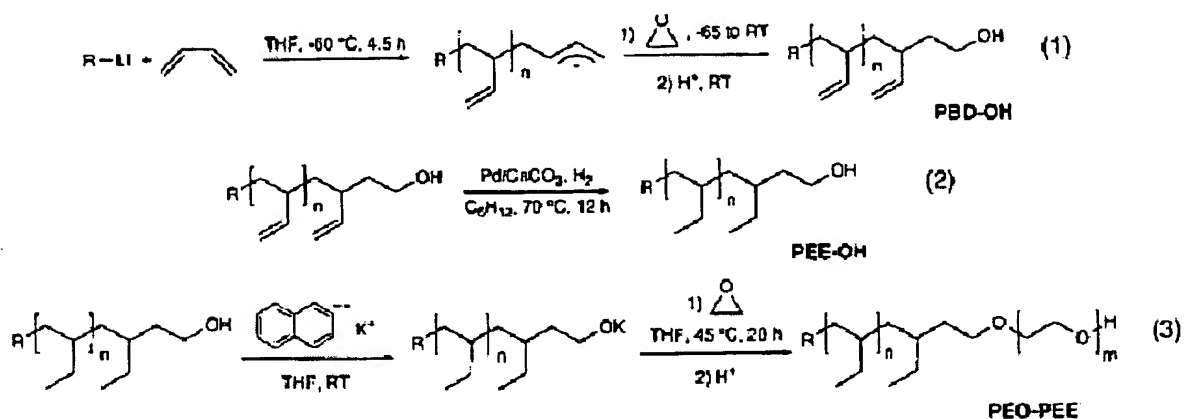


Figure 4

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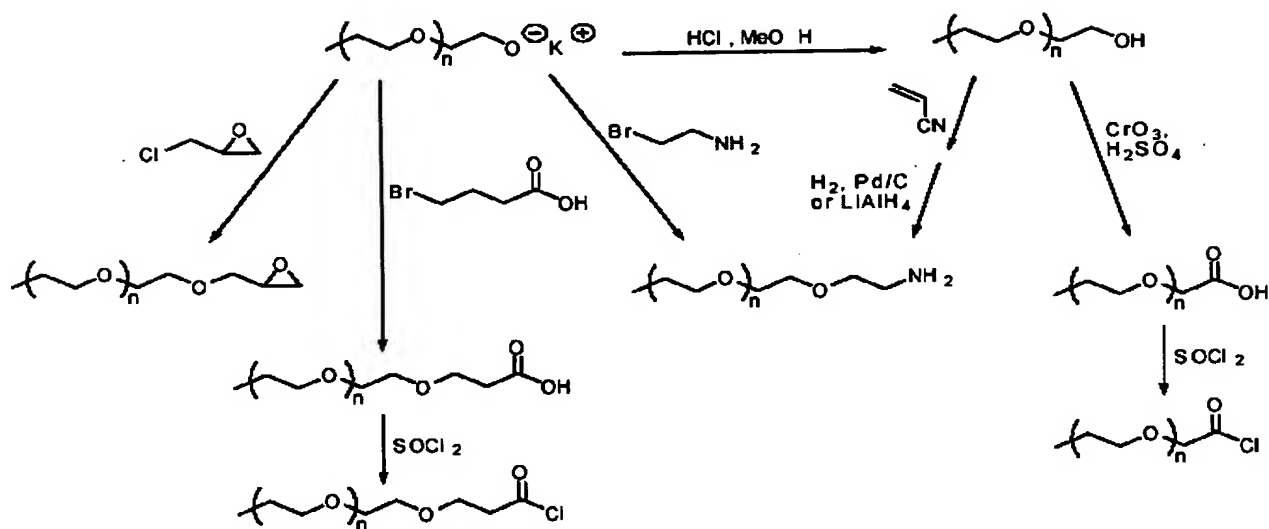


Figure 5

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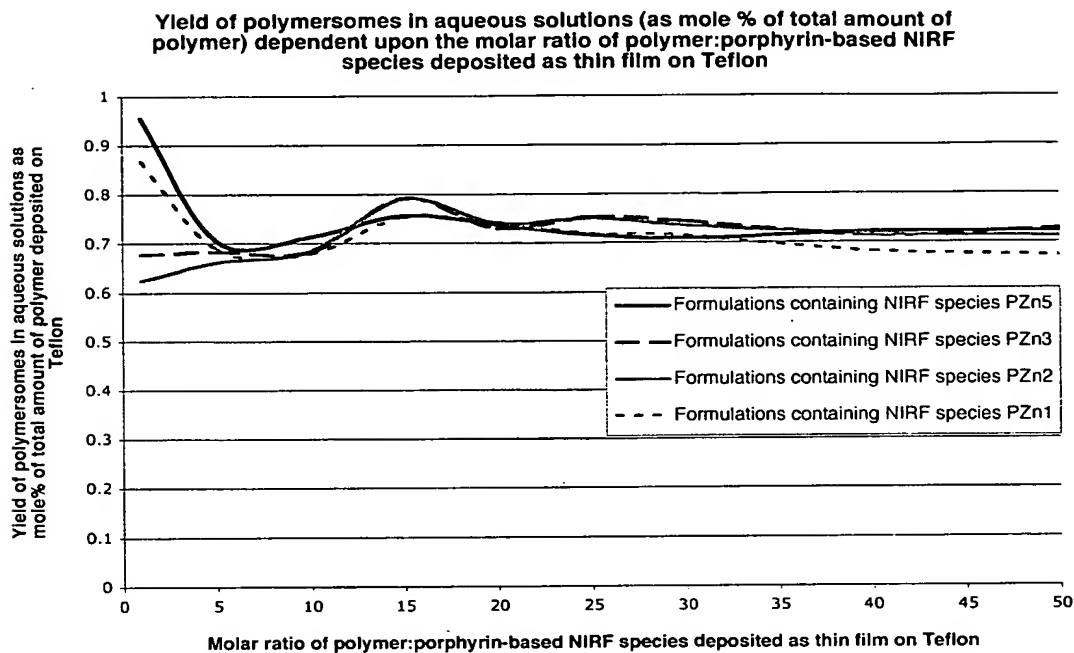


Figure 6

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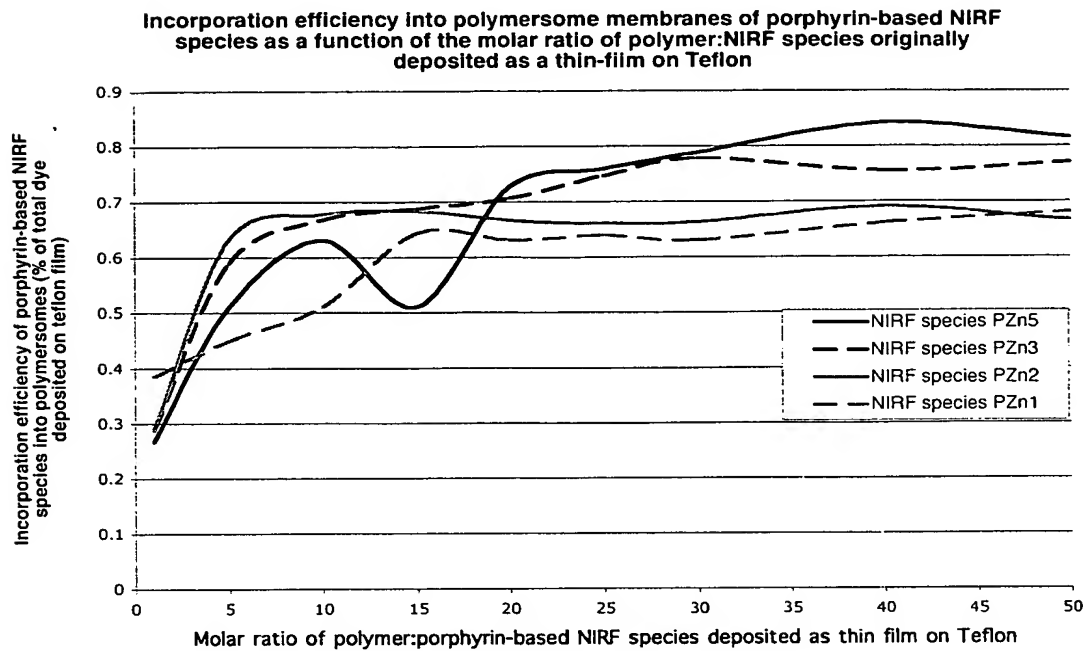


Figure 7

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Loading of polymersomes with porphyrin-based NIRFs (molar ratio of polymer:dye in aqueous solution) as a function of molar ratio polymer:dye originally deposited as a thin-film formulation on Teflon

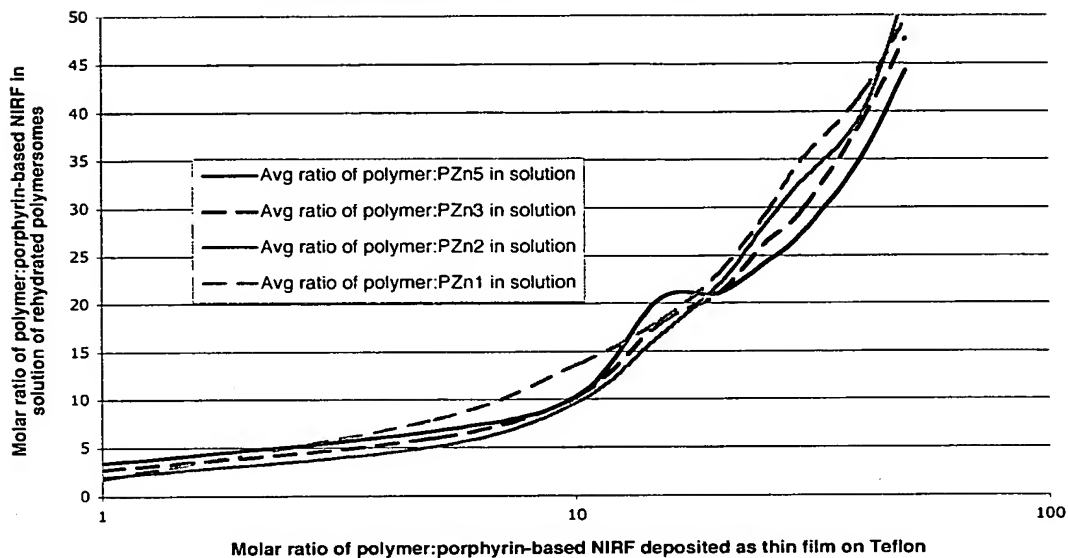


Figure 8

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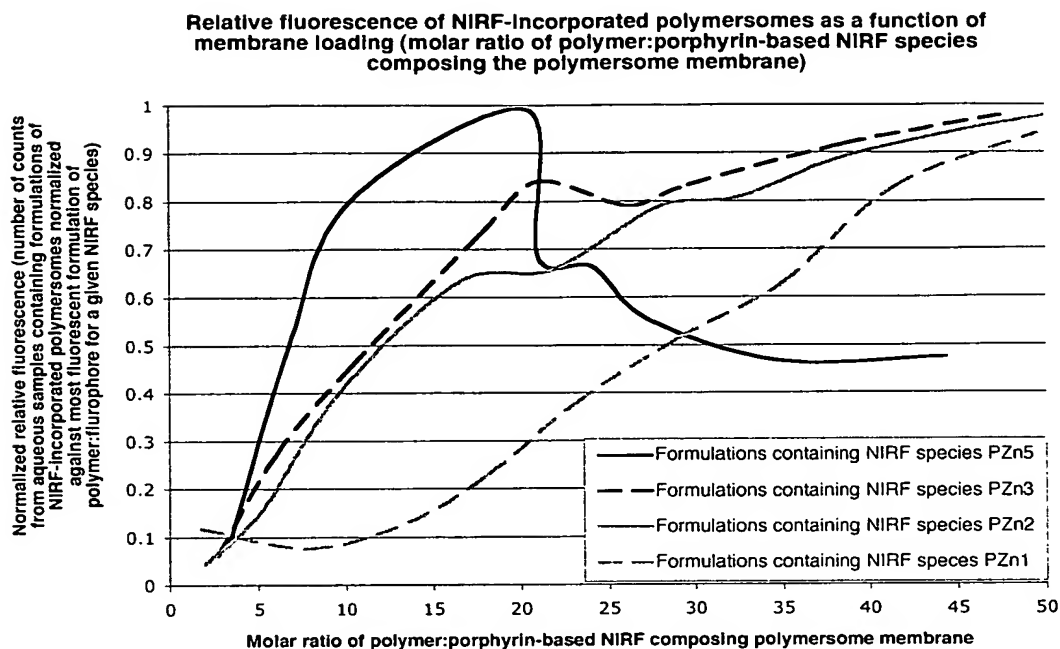


Figure 9

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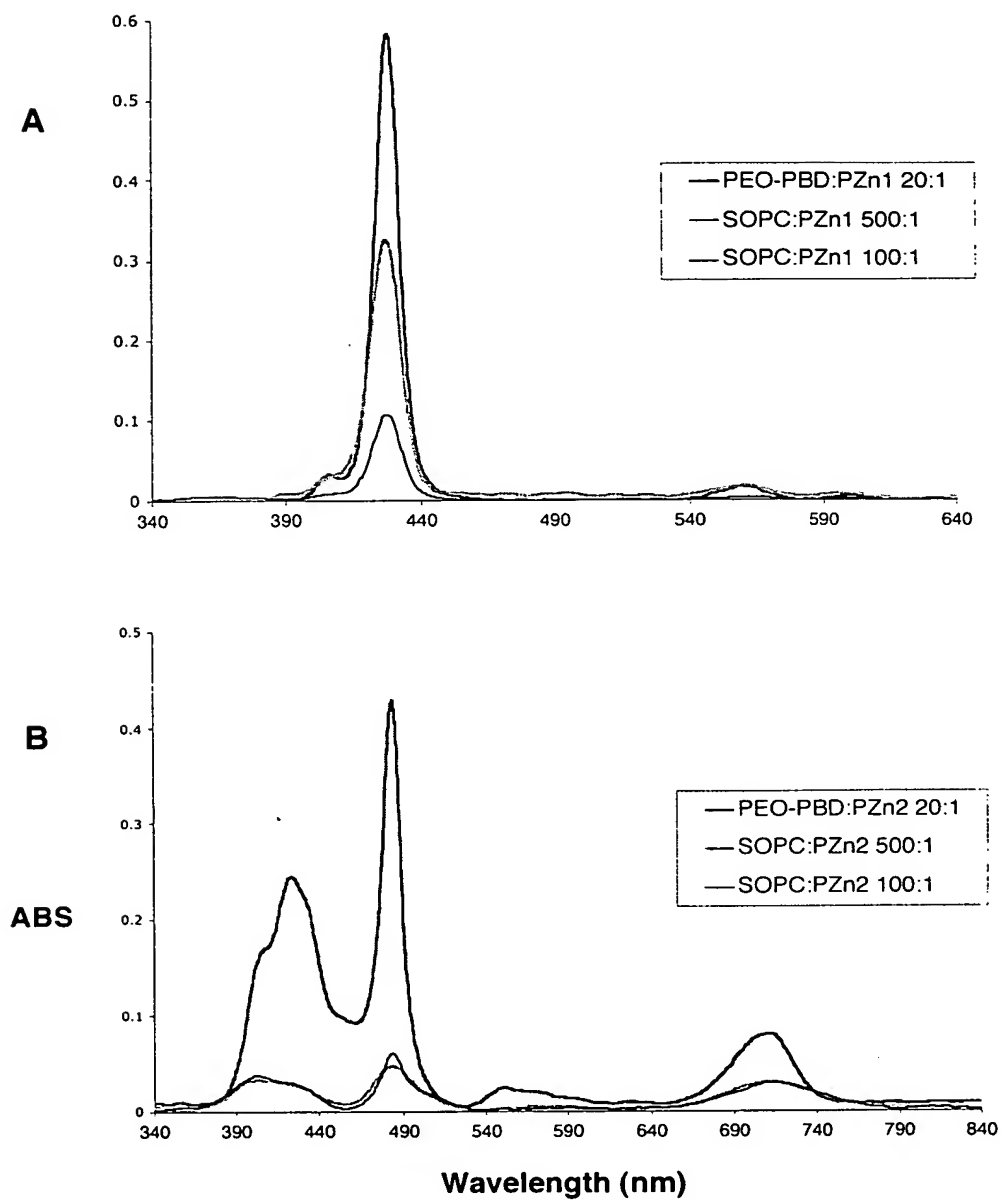


Figure 10

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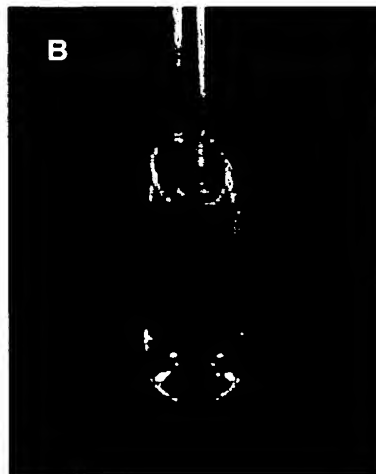
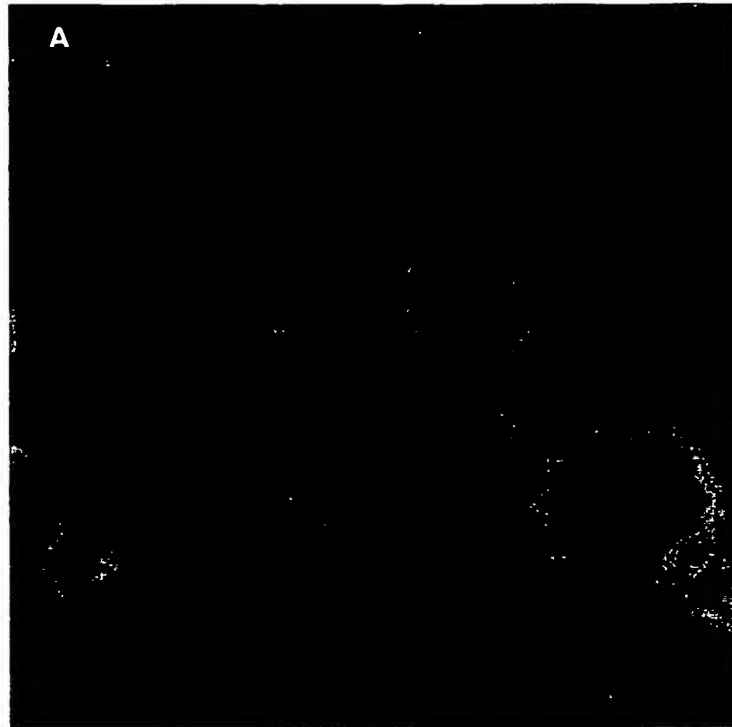


Figure 11

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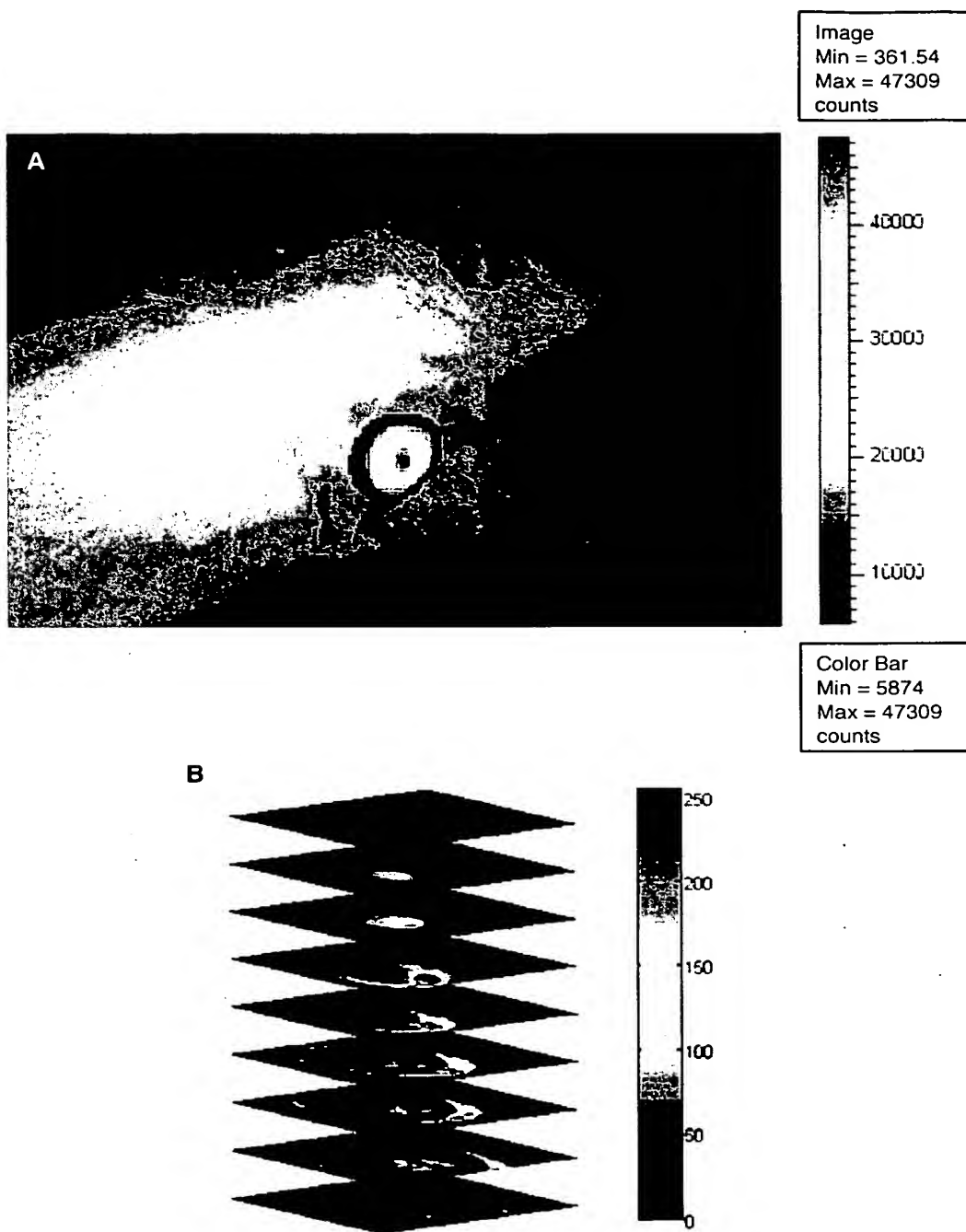


Figure 12

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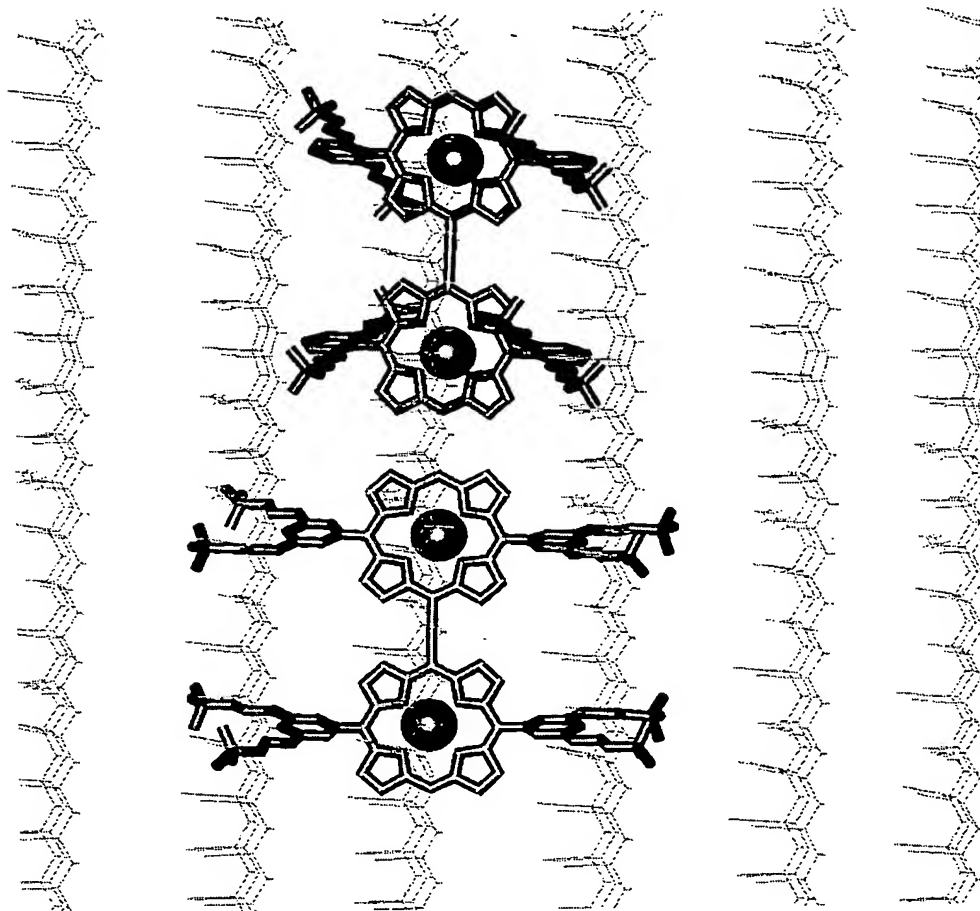
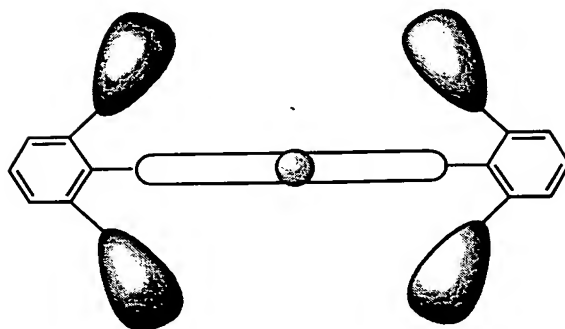


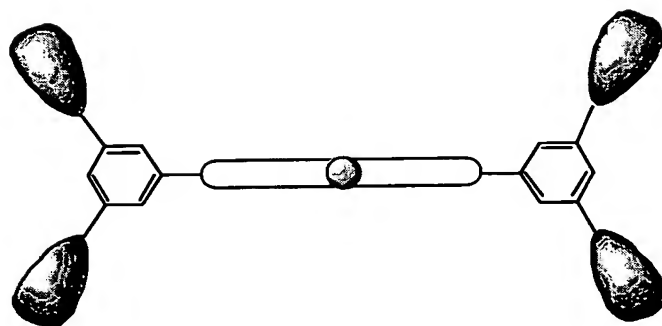
Figure 13

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2, 6 substitution –



3, 5 substitution –



- 2,6 substituted oligomers experience blue-shift in fluorescence emission when incorporated in polymersomes as compared to free compound in THF
- 3,5 substituted oligomers experience red-shift in fluorescence emission when incorporated in polymersomes as compared to free compound in THF

Figure 14

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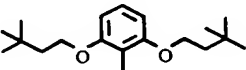
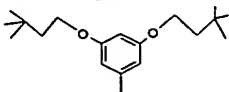
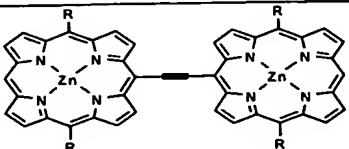
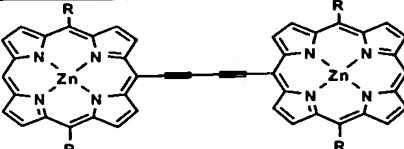
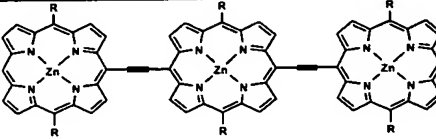
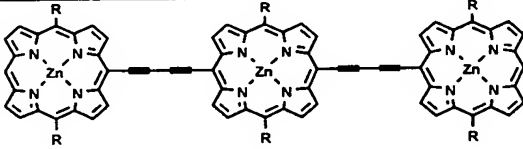
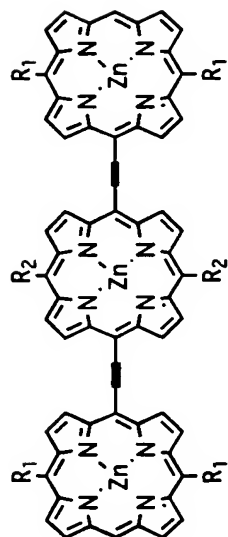
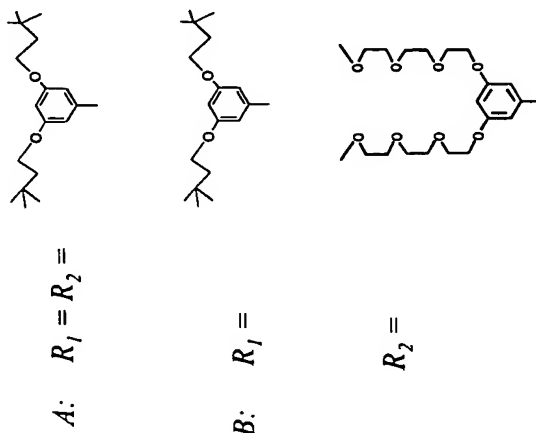
Compound	Emission in THF	R=  in polymersomes	R=  in polymersomes
	708 nm	-13 nm	+15 nm
	685 nm	-5 nm	+12 nm
	797 nm	-35 nm	+20 nm
	757	Same	Same

Figure 15

- Based on nature of R group off of phenyl ring



e.g. 3, 5 substituted meso-to-meso ethyne-bridged trimer



Fluorescence Emission from 3,5 phenyl-substituted meso-to-meso Ethyne-bridged Porphyrin Trimers (with varying R-groups) in THF vs Hydrophobic Membrane of OB2 Polymersomes

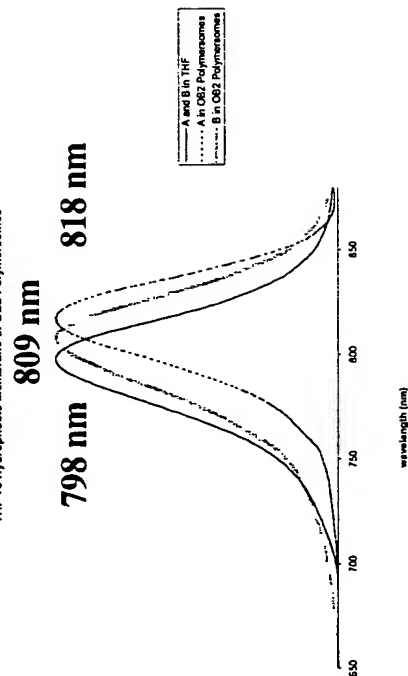


Figure 16

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